

Laboratory CalScientific (India) Pvt. Ltd., 204, Marathon Maxima, L.B.S. Marg, Mulund (W), Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2856

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Validity 12.03.2019 to 09.10.2020

Last Amended on -

	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>ELECTRO TECHNICAL CALIBRATION</u></b>				
<b>I.</b>	<b>SOURCE</b>			
1.	DC Voltage #	10 mV to 100 mV 100 mV to 1 V 1 V to 10 V	0.21 % to 0.04 % 0.04 % to 0.29 % 0.29 % to 0.14 %	Using Handy Calibrator CA71 by Direct Method
2.	DC Current #	4 mA to 10 mA 10 mA to 20 mA	0.15 % to 0.08 % 0.08 % to 0.06 %	Using Handy Calibrator CA71 by Direct Method
3.	Resistance #	40 $\Omega$ to 200 $\Omega$ 200 $\Omega$ to 400 $\Omega$	0.32 % to 0.36 % 0.36 % to 0.70 %	Using Handy Calibrator CA71 by Direct Method
4.	Temperature Simulation # K Type Thermocouple RTD (PT-100)	0 $^{\circ}$ C to 1365 $^{\circ}$ C (-) 190 $^{\circ}$ C to 800 $^{\circ}$ C	1.10 $^{\circ}$ C 0.63 $^{\circ}$ C	Using Handy Calibrator CA71 by Direct Method

Shally Sharma  
Convenor

Battal Singh  
Program Manager

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<b><u>MECHANICAL CALIBRATION</u></b>				
I.	<b>PRESSURE INDICATING DEVICES</b>			
1.	<b>Vacuum-Pneumatic*</b> (Analog/Digital Vacuum Gauges)	(-) 0.93 Bar to 0	0.009 Bar	Using Digital Pressure Gauge By Comparison Method As Per DKD R-6-1
2.	<b>Pressure-Pneumatic*</b> (Analog/ Digital Pressure Gauges)	0 to 20 Bar	0.202 Bar	Using Digital Pressure Gauge By Comparison method As per DKD R-6-1

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<b><u>THERMAL CALIBRATION</u></b>				
<b>I.</b>	<b>TEMPERATURE</b>			
1.	RTD's (PT-100) / Thermocouples with and without Indicator, Glass Thermometer <sup>§</sup>	(-) 40 °C to 50 °C > 50 °C to 100 °C	0.16 °C 0.17 °C	Using PRT Sensor, 8 ½ Digital Multimeter by Comparison Method
2.	RTD's (PT-100) / Thermocouples with and without Indicator <sup>*</sup>	(-) 40 °C to 50 °C >50 °C to 100 °C	0.35 °C 0.39 °C	Using PRT Sensor, Handy Calibrator by Comparison Method
3.	Temperature Indicator of Bath and Oven <sup>*</sup>	(-) 40 °C to 100 °C	0.39 °C	Using PRT Sensor, Handy Calibrator by Comparison Method  (Single Point Calibration)

\* Measurement Capability is expressed as an uncertainty ( $\pm$ ) at a confidence probability of 95.45%

§ Only in Permanent Laboratory

\* Only for Site Calibration

# The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

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